

REMARKS/ARGUMENTS

Claims 1-12 are pending in this application with claims 1, 5 and 9 being amended by this response. Claims 1, 5 and 9 have been amended to clarify that each video input is connected to a respective one of a plurality of input sources. Support for this amendment can be found throughout the specification and more specifically on page 4, lines 5-21. Claims 1, 5 and 9 have further been amended to clarify that available channels received from the source connected to the selection mean are detected. Support for this amendment can be found throughout the specification and more specifically on page 5, lines 20-22. Thus, it is respectfully submitted that no new matter has been added by these amendments.

Rejection of Claims 1-2, 5-6, and 9-10 under 35 USC § 102(b)

Claims 1-2, 5-6 and 9-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Reitmeier (International Patent Application No. WO 99/16247). Applicants respectfully traverse the rejection.

The present claimed invention provides a method and apparatus of performing a channel search in a video processing apparatus having at least two video inputs, each video input able to receive a video signal from a respective one of a plurality of input sources and coupled to a display device. The present claimed invention determines the currently selected video input of at least two video inputs and detects and updates a channel list of available channels received from the source connected to the currently selected video input. Independent claims 1, 5 and 9 each include similar features and thus all arguments presented herein apply to each claim.

Reitmeier describes a method and apparatus for masking program selection latency in an MPEG-like information stream receiver. In a channel scanning mode of operation, a plurality of channels are retrieved from one system stream. The apparatus stores intra-frame (I-frame) data for adjacent channels received from a single RF source feed coupled to two different tuners. In order to accomplish this, Reitmeier's apparatus

determines the channels which a user will most likely select when changing channels based upon user habits and channels surrounding the currently selected channel. Then, the apparatus stores I-frame data from the channels determined most likely to be selected for a channel change.

Common video processing systems have multiple input types.

Disadvantageously, although a tuner can only use one input at a time, in performing an available channel search, current algorithm's search all the inputs for all available channels. However, searching multiple inputs, when only a single input can be used, may be overly iterative and take up a large amount of time. The present claimed invention understands that a tuner can only utilize one input at a time. Thus, the present claimed invention performs an active channel search only on the active or selected input.

The Office Action asserts that Reitmeier discloses an apparatus having two video inputs, each having a respective input source. The Applicant respectfully disagrees. Specifically, referring to Figure 1, Reitmeier disclose a **single input source**—RF antenna 5. The “RF source 5 (illustratively, an antenna or cable television distribution network), provides a radio frequency (RF) signal...coupled to a first a tuner 10A and a second tuner 10B” (Page 5, lines 4-9). Essentially, Reitmeier couples a single input source to two tuners to attain two signal streams. This is wholly unlike the present claimed invention, which has at least two video inputs having respective input sources connected thereto. Therefore, it is respectfully submitted that Reitmeier neither discloses nor suggests “a video processing apparatus having at least two video inputs, **each video input** able to receive a video signal **from a respective one of a plurality of input sources**” as recited in claims 1, 5 and 9 of the present claimed invention.

The Office Action asserts further that Reitmeier discloses determining the current user selected video input from at least two video inputs wherein each video input is able to receive a video signal from a respective one of a plurality of input sources. The Applicant respectfully disagrees. Reitmeier describe that “the first switch 20 may couple either input stream SA, SB to either (or both) outputs O1, O2” (Page 5,

lines 28-29). “One tuner/demodulator pair (i.e., the main tuner/demodulator pair) provides a system stream of a presently tuned channel to the main transport demultiplexer 35 (i.e., the presently tuned channel), **controller 70 causes** switch 20 to couple the output stream from the other tuner/demodulator pair (i.e., scanning tuner/demodulator pair) to the auxiliary demux and process unit 30” (Page 12, lines 18-23). Subsequently, the main transport demultiplexer 35 “extracts a particular program stream from the received system stream S01” (Page 6, lines 7-8) and processing unit 30 “operates in a picture-in-picture mode, **a channel scanning mode** or a channel changing mode” (Page 6, lines 16-17). Essentially, Reitmeier describes the user selection of a first particular program stream and the automatic system selection of a second unselected stream to perform the update of the channel list.

As described above, Reitmeier describes the user selection of a first particular program stream and a system selection of a second program stream. However, the two streams chosen in Reitmeier are tuned from a **single source**. Thus, Reitmeier merely describes a user selection of one particular program stream from among **multiple program streams from a single source**. This is wholly unlike the present claimed invention, which discloses a user selected video input from at least two video inputs having respective sources. Therefore, it is respectfully submitted that Reitmeier neither discloses nor suggests “**determining by the user a currently selected video input** from at least two video inputs” wherein “each video input able to receive a video signal from a respective one of a plurality of input sources” as recited in claims 1, 5 and 9 of the present claimed invention.

The Office Action asserts further that Reitmeier discloses detecting the available channels from various possible channels received from the user selected source. The Applicant respectfully disagrees. Specifically, as mentioned above, Reitmeier describe the user selection of a first stream and a system selection of a second stream. The first steam, selected by the user, is used for the main picture. The second stream, **selected by the controller 70**, is used to perform the channel scanning mode (SA or SB) and is output as S02. This is wholly unlike the present claimed invention, in which the user selects an input source to update the channel list. Thus,

Reitmeier is fundamentally different than the present claimed invention, as Reitmeier describes updating the channel list specifically using the **unselected** user input and the present claimed invention describes updating the channel list specifically using the input **selected** by the user. Therefore, it is respectfully submitted that Reitmeier neither discloses nor suggests “**determining by the user a currently selected video input from at least two video inputs**” and “**detecting available channels from various possible channels received from the source connected to only the currently selected video input**” as recited in claims 1, 5 and 9 of the present claimed invention.

The Office Action asserts further that Reitmeier updates a channel list of all channels available for the selected input source. The Applicant respectfully disagrees. As discussed in the previous response, Reitmeier describes a scan list in Table 1 (page 15, lines 26-27). The scan list is a list of most likely selected channels determined by the receiver based upon user habits and channels surrounding the currently selected channel. This is not a list of all available channels. Rather, Reitmeier is concerned with keeping a **small list of channels**. Reitmeier is unable to efficiently store and update all channels due to controller and memory constraints. Therefore, it is respectfully submitted that Reitmeier neither discloses nor suggests “**updating a channel list of all channels available for the currently selected video input**” as recited in claims 1, 5 and 9 of the present claimed invention.

In view of the above remarks, Applicants respectfully submit that there is no 35 USC 112 compliant enabling disclosure in Reitmeier that anticipates the present claimed invention. Accordingly, as claims 2, 6 and 10 are dependent on independent claims 1, 5 and 9 respectively, Applicant respectfully submit that these claims are also not anticipated by Reitmeier. Therefore, Applicant further respectfully submits that this rejection has been satisfied and should be withdrawn.

Rejection of Claims 3-4, 7-8, and 11-12 under 35 USC § 103(a)

Claims 3-4, 7-8, and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reitmeier in view of Wugofski (International Patent Application No. WO 99/35833). Applicants respectfully traverse this rejection.

Wugofski describes a convergence system displaying channel banners that assume the same form regardless of the source on a display. The system includes a television component for receiving a plurality of inputs from a plurality of sources. Each banner includes a plurality of fields. The information contained within fields of the channel banner change with time. A plurality of source devices is available from which the system described by Wugofski can download program data to be displayed on the channel banners.

The Office Action asserts that Wugofski discloses the principles of the present claimed invention. However, Wugofski, similarly to Reitmeier, neither discloses nor suggests “detecting available channels from various possible channels received from the source connected to only the currently selected video input” as recited in claims 1, 5 and 9 of the present claimed invention. Additionally, Wugofski, similarly to Reitmeier, neither discloses nor suggests “updating a channel list of all channels available for the currently selected input” as recited in the present claimed invention. Rather, Wugofski is only concerned with placing information banners having the same form on a display regardless of the input source.

Furthermore, Wugofski is not concerned with the problem addressed by the present claimed invention. Specifically, Wugofski is concerned with extracting channel banner information and uniformly displaying it regardless of the input source on a display in a convergence system. Wugofski is not concerned with performing an optimized channel search, as in the present claimed invention.

Additionally, there is no reason or motivation to combine the systems of Reitmeier and Wugofski, as suggested by the Office Action. Reitmeier is concerned with masking the latency time experienced while changing channels in a television receiver. Wugofski describes a system for uniformly displaying channel banner

information, regardless of the input. Reitmeier's apparatus consists of one RF input source coupled to two tuners in order to retrieve channels for user viewing, such as in a picture-in-picture (PIP) application as described on page 7, line 28 to page 8, line 11. To perform a channel scan or search, Reitmeier does not retrieve channel banner information, as described by Wugofski. Moreover, Wugofski's system is not concerned with scanning channels but with obtaining event information and displaying the necessary fields after selecting a source via a remote control device, as shown in Fig. 2A and Fig. 7. Thus, Wugofski and Reitmeier are concerned with completely unrelated problems and provide unrelated solutions to their respective problems. Therefore, there is no reason or motivation to combine these references. Furthermore, neither Reitmeier nor Wugofski address the objective of the present claimed invention which is to reduce the time necessary to complete the channel acquisition process in a system with two or more inputs. Furthermore, there is no reason or motivation to combine the systems of Reitmeier and Wugofski, as Reitmeier uses a single RF source and Wugofski uses a variety of sources.

However, even if the systems of Reitmeier and Wugofski were combined, the combined system would not produce the present claimed invention. Specifically, the combined system would be identical to the problem addressed by the present claimed invention. Specifically, the combined system would scan both input sources when performing the available channel search. As both the individual systems of Reitmeier and Wugofski are not concerned with a user determination of a selected input source, it is respectfully submitted that the combined system of Reitmeier and Wugofski neither discloses nor suggests "determining by an user a currently selected video input from at least two video inputs" and "detecting available channels from various possible channels received from the source connected to only the currently selected video input" as recited in claims 1, 5 and 9 of the present claimed invention. As claims 3-4, 7-8 and 11-12 are dependent on independent claims 1, 5 and 9 respectively, the above remarks concerning the independent claims are applicable to these claims as well.

In view of the above remarks, Applicants respectfully submit that Reitmeier in view of Wugofski provide no 35 USC 112 compliant enabling disclosure that makes

claims 1, 5 and 9 unpatentable. Accordingly, as claims 3-4, 7-8 and 11-12 are dependent on claims 1, 5 and 9, respectively, it is respectfully submitted that these claims are also patentable over Reitmeier in view of Wugofski. Therefore, Applicant further respectfully submits that this rejection has been satisfied and should be withdrawn.

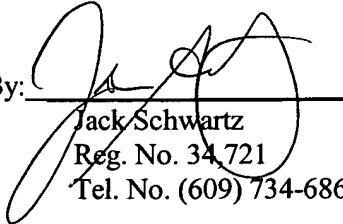
Having fully addressed the Examiner's rejections, it is believed that, in view of the preceding amendments and remarks, this application stands in condition for allowance. Accordingly then, reconsideration and allowance are respectfully solicited. If, however, the Examiner is of the opinion that such action cannot be taken, the Examiner is invited to contact the applicant's attorney at the phone number below, so that a mutually convenient date and time for a telephonic interview may be scheduled.

Serial No. 10/031,091

Attorney Docket No. RCA89650

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Respectfully submitted,
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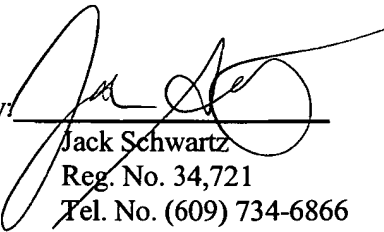
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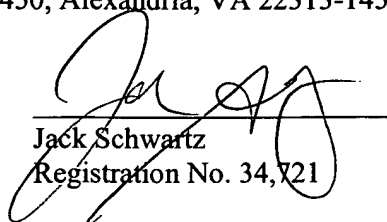
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CERTIFICATE OF MAILING

I hereby certify that this amendment is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

Date: January 30, 2007



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